PTO/SB/05 (08-03)
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UTILITY PATENT APPLICATION

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|---|--|-----------------------------|--|---------|--|--|--|
| I | Attom | ey Docket No. | 65899-0726 | | | | |
| I | First II | nventor | Joseph P. Heremans | | | | |
| | Title | Thermoelectr Coefficient | ric Materials with Enhanced Seebeck | J.S. PT | | | |

| IRANSMITTAL | Title | Coefficient | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|
| (Only for new nonprovisional applications under 37 CFR 1.53(b)) | ess Mail Label No. EV223960338US - | | | | | | | | | |
| APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application con | ntents. | MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 | | | | | | | | |
| 1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing) | | CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) | | | | | | | | |
| 2. Applicant claims small entity status. See 37 CFR 1.27. | | Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) | | | | | | | | |
| 3 X Specification [Total Pages 13 | 3/1 | a. Computer Readable Form (CRF) | | | | | | | | |
| (preferred arrangement set forth below) Descriptive title of the invention Cross Reference to Related Applications Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention Brief Summary of the Invention | b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS | | | | | | | | | |
| Brief Description of the Drawings (if filed) Detailed Description | | 9. Assignment Papers (cover sheet & document(s)) | | | | | | | | |
| Claim(s) Abstract of the Disclosure | | 10. 37 CFR 3.73(b) Statement (when there is an assignee) Power of Attorney | | | | | | | | |
| 4. X Drawing(s) (35 U.S.C. 113) [Total Sheets | 3 / 1 | 11. English Translation Document (if applicable) | | | | | | | | |
| 5. Oath or Declaration [Total Sheets | 2 1 | 12. Information Disclosure Copies of IDS Citations | | | | | | | | |
| a:\X Newly executed (original or copy) | 13. Preliminary Amendment | | | | | | | | | |
| b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) | 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. Other: | | | | | | | | | |
| i. DELETION OF INVENTOR(S) | | | | | | | | | | |
| Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). | | | | | | | | | | |
| 300 37 OTT 1.00(0)(2) MIG 1.00(0). | | | | | | | | | | |
| 6. X Application Data Sheet. See 37 CFR 1.76 | | | | | | | | | | |
| 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner Art Unit: | | | | | | | | | | |
| | | ure of the prior application, from which an oath or declaration is supplied ng continuation or divisional application and is hereby incorporated by | | | | | | | | |
| | | as been inadvertently omitted from the submitted application parts. ONDENCE ADDRESS | | | | | | | | |
| | INESPO | | | | | | | | | |
| x Customer Number: 10291 | | OR Correspondence address below | | | | | | | | |
| RADER, FISHMAN & GRAUEF Joseph V. Coppola, Sr. | R PLLC | C | | | | | | | | |
| 39533 Woodward Avenue Suite 140 | | | | | | | | | | |
| City Bloomfield Hills State | te | MI Zip Code 48304 | | | | | | | | |
| Country US Tele | ephone | (248) 594-0600 Fax (248) 594-0610 | | | | | | | | |
| Name (Print/Type) Joseph V. Coppola, Sr. | US Telephone (248) 594-0600 Fax (248) 594-0610 | | | | | | | | | |
| Signature Date March 24, 2004 | | | | | | | | | | |
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Utility Patent Application Transmittal

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV223960338US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: March 24, 2004

_ (Joyce A. Krumpe)

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|--|-----------------------------|--------------------------------|--------------|---------------|--|-----------------------|--|--|--|--|
| FEE TRANSMITTAL | | Comp | | | Complete if Known | | | | | |
| I LE INANSMITTAL | ' | Application Number | | | | Not Yet Assigned | | | | |
| for FY 2004 | | Filing Date | | | Concurrently Herewith | Concurrently Herewith | | | | |
| Effective 10/01/2003, Patent fees are subject to annual revision. | First Named Inventor | | | d Inver | | Joseph P. Heremans | | | | |
| Enderto red income con a comparto de compa | Examiner Name | | | ame | Not Yet Assigned | | | | | |
| Applicant claims small entity status. See 37 CFR 1.27 | Art Unit | | | | N/A | | | | | |
| TOTAL AMOUNT OF PAYMENT (\$) 900.00 | | Attorney Docket No. 65899-0726 | | | | | | | | |
| METHOD OF PAYMENT (check all that apply) | FEE CALCULATION (continued) | | | | | | | | | |
| Credit Money | 3. ADDITIONAL FEES | | | | | | | | | |
| Check Card Order Other None | 3. ADDITIONAL FEES | | | | | | | | | |
| X Deposit Account: | | | | | | | | | | |
| Deposit Account 18-0013 | Fee | Entity Fee | Fee | Entity Fee | | | | | | |
| Number | Code | | Code | (\$) | Fee Description | Fee Paid | | | | |
| Deposit Account Rader, Fishman & Grauer PLLC | 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath | | | | | |
| Name | 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover | | | | | |
| The Director is authorized to: (check all that apply) | | | | | sheet. | | | | | |
| X Charge fee(s) indicated below X Credit any overpayments | 1053 | 130 | 1053 | 130 | Non-English specification | | | | | |
| X Charge any additional fee(s) or any underpayment of fee(s) | 1812 | 2,520 | 1812 | 2,520 | For filing a request for ex parte reexamination | | | | | |
| Charge fee(s) indicated below, except for the filing fee | 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | | | | | |
| to the above-identified deposit account. | 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after | | | | | |
| FEE CALCULATION | 1251 | 110 | 2251 | 55 | Examiner action Extension for reply within first month | | | | | |
| 1. BASIC FILING FEE | 1252 | 420 | 2252 | 210 | Extension for reply within second month | | | | | |
| Large Entity Small Entity | 1253 | 950 | 2253 | 475 | Extension for reply within third month | | | | | |
| Fee Fee Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$) | 1254 | 1,480 | 2254 | 740 | Extension for reply within fourth month | | | | | |
| 1001 770 2001 385 Utility filing fee 770.00 | 1255 | 2,010 | 2255 | 1,005 | Extension for reply within fifth month | | | | | |
| 1002 340 2002 170 Design filing fee | 1401 | 330 | 2401 | 165 | Notice of Appeal | | | | | |
| 1003 530 2003 265 Plant filing fee | 1402 | 330 | 2402 | 165 | Filing a brief in support of an appeal | | | | | |
| 1004 770 2004 385 Reissue filing fee | 1403 | 290 | 2403 | 145 | Request for oral hearing | | | | | |
| 1005 160 2005 80 Provisional filing fee | 1451 | 1,510 | 1451 | | Petition to institute a public use proceeding | | | | | |
| SUBTOTAL (1) (\$) 770.00 | 1452 1453 | 110 1,330 | 2452 2453 | 55 665 | Petition to revive – unavoidable Petition to revive - unintentional | | | | | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | 1501 | 1,330 | 2501 | 665 | Utility issue fee (or reissue) | | | | | |
| Extra Fee from | 1502 | 480 | 2502 | 240 | Design issue fee | | | | | |
| Claims Delow Fee Paid | 1503 | 640 | 2503 | 320 | Plant issue fee | | | | | |
| Independent 2 3** - 0.00 | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | | | | | |
| Claims 2 3 - 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) | | | | | |
| | 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt | | | | | |
| Large Entity Small Entity Fee | | | | | Recording each patent assignment per | | | | | |
| Code (\$) Code (\$) | 8021 | 40 | 8021 | 40 | property (times number of properties) | 40.00 | | | | |
| 1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3 | 1809 | 770 | 2809 | 385 | Filing a submission after final rejection (37 CFR 1.129(a)) | | | | | |
| 1203 290 2203 145 Multiple dependent claim, if not paid | 1810 | 770 | 2810 | 385 | For each additional invention to be examined (37CFR 1.129(b)) | | | | | |
| 1204 86 2204 43 ** Reissue independent claims | 1801 | 770 | 2801 | 385 | Request for Continued Examination (RCE) | | | | | |
| over original patent | 1802 | 900 | 1802 | 900 | Request for expedited examination | | | | | |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent | | l ee (spec | | | of a design application | | | | | |
| SUBTOTAL (2) (\$) 90.00 | | ced by E | | ing Fee | Paid SUBTOTAL (3) (\$) | 40.00 | | | | |
| **or number previously paid, if greater, For Reissues, see above | | | | | The state of the s | | | | | |
| SUBMITTED BY | | | | | (Complete (if applicable)) | | | | | |
| Name (Print/Type) Joseph V. Coppola, Sr. 🗸 | | ration No ny/Agent) | 33. | 373 | Telephone (248) 594-0650 . | / | | | | |
| Signature Sperill Comple | - | улнувшу | | | Date March 24, 2004 | | | | | |
| | | | | | | | | | | |
| Fee Transmittal | | | | | | | | | | |
| I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV223960338US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the | | | | | | | | | | |
| date shown below. | | | | | | | | | | |
| Dated: March 24, 2004 Signature: Office (Anamal) (Joyce A Krumpe) | | | | | | | | | | |